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disease, are not. Besides expelling the rheumatic virus from the system, it over-comes fever and ague, biliousness, con-i-HELENA SMELTER

A Pen Picture of One of the Most Complete Smelting Works in the World.

The Entire Plant of the Most Approved Pattern, the Outgrowth of Ripe Experience.

All the Important Machinery Duplicated, Se no Ordinary Accident Will Delay Operations .- The Daily Capacity.

The last number of the New York Financial and Mining Record contains the following article from the pen of John W. Eddy, of Helena: I have just visited the Helena & Livingston smelter and noted a few items which many of your readers will not have just visited the had only been wise, and wise in time, there is no reason why he should not do. If he had only been wise, and wise in time, there is no reason why he should not have here Helena & Livingston smelter and noted a few items which many of your readers will be interested to know. The plant is now nearly complete, as at first planned, and presents an imposing appearance with its many buildings, some of which are quite large. The reverberatory building is 325 feet long by 77 feet wide, and the one containing the blast furnaces is 120x60, and the roof which covers the boilers, Bruckner cylinders, engines, etc., and another over the crusher rolls, etc., are spacious, and when you add to this the large brick office, and the assay office, also of brick, with the requisite or or bins, and other structures appurtenant to the plant, you have almost a city by itself, and I don't believe it took less than \$250,000 to put the plant in order for work, and now it is in operation not less than twice that amount additional is requisite to enable the works to handle the limmense quantities of ores offered them for treatment.

At present there are three stacks running, each having a capacity of seventy tons per twenty-four hours, including fluxes, but the net ore smelted is fifty tons per day. Five large reverberatories, each having a daily capacity of eight is more dated as mid weery thing he should not have be no is nor eason why he should not have be no is no reason why he should not have be no is no reason why he should not have be no is no reason why he should not have be no is nor eason why he should not have be no alive to-day, hale and strong; but he never would listen to advise about his peands trong; but he never would listen to advise about Mr. Bright's habits on this score. Until the last ten years he had no recognized medical attendant. There was some anonymous and unknown person to whom he went for advice, and of whom he spoke of acularly, "but," said Mr. Gladstone with that curious approach to a wink that sometimes varies his grave aspect, "he would never tell his name or say where he lived. About ten years ago Mr. Bright's habits on whom he went for advies how when he went for advise a

smelted per day. Five large reverberatories, each having a daily capacity of eight tones, are now used in the roasting of ore, and one slagging furnace which uses the same quantity of ore, and also an equal quantity of five-dust, are constantly at work. Two other slagging furnaces are ready for work whenever occasion may demand, and also two large Buckner cylinders of ten tons capacity each.

It was at the control of the morning. Mr. Gladstone said:

It most exciting political crises I dism as current matters entirely from my mind when I go to bed, and I will not think of them until I get up in the morning. I told Bright this, and he said:

That's all very well for you, but my way is exactly the reverse. I think over all my speeches when I am in bed, like Sancho I'anza."

Mr. Gladstone said: ders of ten tons capacity each.

It was at one time intended to double the number of roasters, but such a large

percentage of ores that do not need roasting have been received at the works as to ren-der enlarged facilities in this direction at present unnecessary. Everything about this entire plant is of the most improved pattern, and is the outgrowth of ripe ex-perience and scientific skill. Cars that run pendant from an overhead track take the ores and slag from these reverbatories and carry them out to the bins with a rapid-ity and ease of handling that is a vast im-provement upon the old fashioned wheel-

provement upon the old fashioned wheel-barrow.

The mixing or charge floors are on a level with the feed openings of the stacks and the charge is merely shoveled into a large opening in the floor, instead of a hole in the side of the stack, as in the old-time furnaces. Three large blowers are now in use for the furnaces, and the fourth will be called into use as soon as the remaining stack is blown in, and one large blower is called into use as soon as the remaining stack is blown in, and one large blower is always ready to take the place of any one which by accident may be disabled. A contrivance made by Prof. Rhat, the superintendent, carries the fumes that always rise from the slag-pot out of the building, so that there is no fear of the workmen becoming leaded, or disagreeably affected by the smoke. Over each siag-spout is a large hood which connects with a large galvanized iron pipe at the end of which is a powerful suction fan, and the current of air induced to operate upon with assured success.

S. J. McCornick,
Editor Catholic Sentinel.

Sold by R. S. Hale & Co., wholesale and retail agents, Helena.

Helena, Oct. 7, 1887.

I was suffering from an unusually bad cough, my lungs were sore and congested, and I consulted one of the best physicians in Helena, whose prescriptions failed to relieve me. I became alarmed, and at the suggestion of a friend purchased a bottle of Carry smoke and fumes away almost enrise from the slag-pot out of the building, so that there is no fear of the workmen becoming leaded, or disagreeably affected by the smoke. Over each slag-spout is a large hood which connects with a large galvanized iron pipe at the end of which is a powerful suction fan, and the current of air induced into this pipe is strong enough to carry smoke and fumes away almost entirely.

The furnace-blast is maintained by means of a 225-horse power engine, with a boiler capacity behind it amcunting to 360 horse power. Of the sight believe message to directions was completely cured. I therefore cheerfully recommend it.

JACOB SWITZER.

I was suffering from an unusually bad cough, my lungs were sore and congested, and I consulted one of the best physicians in Helena, whose prescriptions failed to relieve me. I became alarmed, and at the suggestion of a friend purchased a bottle of Acker's English Remedy for coughs, and after taking it according to directions was completely cured. I therefore cheerfully recommend it.

JACOB SWITZER.

aduced into this pipe is a sample of a duced into this pipe is a sample of a duced into this pipe is a sample of a duced into this pipe is a sample of a duced into the first into the duced into the sample of a duced into the sample of a duced in loads of 20,000 pounds each have been shipped, and now that the plant is operating well, two carloads, or 40,000 pounds, in Helena only by R. S. Hale & Co.

There are four crushers and two pair of rolls in the crushing department run by a in his new discovery for consumption, suc-60-horse power engine. One of these crushers breaks up 50 tons of limerock, or what i-frequired each 24 hours, in 25 hours, or it acknowledged by all to be simply marveli-frequired each 24 hours, in 2½ hours, or it chews up its calcareous food at the rate of 20 tons per hour! The coke used by this company is all made in their own ovens at Cokedale on the N. P. raiiroad, and the capacity, now 45 tons daily, is to be increased to the extent of 20 tons more in order to fully supply this smelter as well as that at Wickes which is now an adjunct of the Helena & Livingston Smelting & Reduction company. A coal-washer is now being put up at Cokedale to enable them to clean the coal of slate and make the endocrease of the company. A coal-washer is now being put up at Cokedale to enable them to clean the coal of slate and make the endocrease of the coal of slate and make the endocrease of the coal of slate and make the endocrease of the coal of slate and make the endocrease of the coal of slate and make the endocrease of the coal of slate and make the endocrease of the coal of slate and make the endocrease of the coal of slate and make the endocrease of the coal of slate and make the endocrease of the coal of slate and make the endocrease of the coal of slate and make the endocrease of the coal of slate and make the endocrease of the coal of slate and make the endocrease of the coal of slate and make the endocrease of the coal of slate and the coal of s to clean the coal of slate and make the en-tire mine product cokeable. The three stacks at Wickes are now running in fine shape on the concentrates made at Corbin, and turn out about one carload of bullion per day. The concentrator at Corbin pro-duces about 1,000 tons of concentrates per month, and at present none comes to Helena, as all the lead required is produced Began taking Dr. King's New Discovery for Consumption, am now on my third bottle, and able to oversee the work on my farm. It is the finest medicine ever made."

Jesse Middlewart, Decatur, Ohio, says: "Had it not been for Dr. King's New Discovery for Consumption I would have died of lung troubles. Was given up by doctors. Am now in best of health." Try it. Sample bottles free at R. S. Hale & Co.'s

Every appliance which human skill can suggest and ample capital secure to make the Helena plant strictly first-class in all its appointments, has been laid under tri-bute. Two dynamos furnish are and in-Sample bottles free at R. S. Hale & Co.'s candescent electric lights. Even the pumps are duplicated. When one pump may need repair another is always ready, and if both should fail an injector can be instantly connected for boiler use. Two immense wells supply water for the water-jackets, and the tanks are being used exclusively for the protection of the works against fire.

This plant is under the superintendence.

against fire.

This plant is under the superintendence of A. Raht, who has all its diversified interests as well in hand as it it were a small affair. He is an accomplished mineralogist, a master in metallurgy, a good business manager, and withal a genial gentleman. last night, and as soon as he got inside the door began to swing his arms over his head like an Indian club swinger. I thought the blamed fool had a fit, but he finally stopped long enough to say: "Medicine velly fine, velly fine; alle same make me feel plenty good." Chamberlain's Pain Balm is without an equal for sprains, rheumatism, aches, pains or lame back. For sale by H. M. Parchen & Co.

Jerry Rusk's Humor.

Says a Washington correspondent "Secretary Rusk bids fair to prove one of the most popular members of the administration. His practical good sense and sturdy perspiration, producing a very disagreehonesty of purpose are supplemented by a able itching after getting warm. This FRED GAMER, Helena, M. keen sense of humor. He receives more invitations than any other public man in Washington. The other day a visitor at the agricultural department, gazing over the ample grounds in which the buildings are located, turned to the secretary and remarked: 'You've got the prettiest place in the city.' Mr course. Why not?' was the prompt rej sinder. 'You know the secretary of agriculture is the tail end of the cabinet, and the tail is almost altogether.

This best ealing after getting warm. This form, as well as blind, bleeding and protruding piles, yield at once to the application of Dr. Bosanko's Pile Remedy, which acts directly upon the parts affected, absorbing the tumors, allaying the intense itehing and effecting a permanent cure. Fifty cents. Address The Dr. Bosanko Medicine company, Piqua, O. Sold by R. S. Hale & Co.

The best ealing in the world for outs. ornamental. Its principle use is to keep the flies off the other members of the cabi-

Agony is Courted

By persons who, attacked by a mild form of rheumatism, neglect to seek prompt relief. Subsequent torture is prevented by an immediate resurt to Hostetter's Stomach For sale by R. S. Hale & Co. an immediate resort to Hostetter's Stomach an immediate resort to Hostetter's Stomach Bitters. Slight exposure, an occasional draught, will beget this painful malady, where there is a predisposition to it in the blood. It is not difficult to arrest the trou-ble at the outset, but well nigh impossible to eradicate it when matured. No evidence in relation to this superb blood decourset is in relation to this superb blood depurent is more positive than that which establishes its efficacy as a preventive and a remedy for rheumatism. Not only is it thorough, but safe, which the vegetable and mineral poisons, often taken as curatives of the

Be Sure

GLADSTONE AND BRIGHT.

Stories of His Old Friend.

year is an increasing deafness and a slight

huskiness in his voice, which wears off as

he talks, and he talks with abounding free-

The Montana Central will make rate of

Is Consumption Incurable?
Read the following: Mr. C. H. Morrfs,

Newark, Ark., says, "Was down with Abscess of Lungs, and friends and physicians

pronounced me an incurable consumptive

An Expression of Delight. "About a week ago," says a Los An-

Bucklen's Arnica Salve.

The best salve in the world for cuts,

bruises, sores, ulcers, salt rheum, fever

sores, tetter, chapped hands, chilblains,

When Baby was sick, we gave her Castoria,

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one fare for the round trip to Boulder and

return on Decoration Day.

London special: In public life the only in-

If you have made up your mind to buy any other. A Boston lady, whose example is orthy imitation, tells her experience below: " In one store where I went to buy Hood's Sarsaparilla the clerk tried to induce me buy their own instead of Hood's; he told me their's dication that Gladstone has entered his 80th would last longer; that I might take it on ten

To Get

fays' trial; that if I did not like it I need not ness, though, as some one observed, he is a my anything, etc. But he could not prevail a me to change. I told him I had taken most attractive listener. One notable thing about his personal appearance is the lood's Sarsaparilla, knew what it was, webrightness of his eyes. They are fuller atisfied with it, and did not want any other. and more unclouded than those of many a When I began taking Hood's Sarsaparilla man under 50. Mr. Gladstone was dowered was feeling real miserable with dyspepsia, with a strong constitution, but all his life he has taken great care of it. Of Mr

tion. Hood's Sarsaparilla did me so much

Sarsaparilla

100 Doses One Dollar OMAHA MEDICAL SURGICAL



CHRONIC & SURGICAL DISEASES

APPLIANCES FOR DEFORMITIES AND TRUSSES.
Best Facilities, Apparatus and Remedies for Successful Treatment of every form of Disease requiring MEDICAL or SURGICAL TREATMENT.

NINETY ROOMS FOR PATIENTS.
Board & Attendance. Best Accommodations in West, C. WRITE FOR CIRCULARS on Deformities and Braces, Trusses, Club Feet, Curvatures of Spine, Piles, Tumors, Cancer, Catarrh. Bronchitis, Inhalation. Electricity, Paralysis, Epilepsy, Kiney, Bladder, Eye, Ear. Skin and Blood and all Surgical Operations. Seven hours he always gets, "and," he added with a smile, "I should like eight. I hate getting up in the morning. I hate DISEASES OF WOMEN & it the same every morning, but one can do everything by habit, and when I have had my seven hours' sleep my habit is to get PRIVATE DISEASES.

> BOOK TO MEN, FREE: 0 OMAHA MEDICAL & SURGICAL INSTITUTE, DEFORMITY APPLIANCES, TRUSSES,
> ELECTRIC BATTERIES
> AND BELTS.



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